

## METHODS FOR HIGH RESOLUTION GENE MAPPING

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### Abstract of **WO9322463**

Two convenient methods for ordering discrete DNA sequences at a high resolution are described. In one embodiment, the invention features a) contacting a eukaryotic cell containing a chromosome of interest with an agent that effects decondensation; b) preparing the cell containing decondensed chromatin for hybridization; and c) hybridizing the cell produced in step b) with at least two DNA probes, each probe being complementary to at least one discrete DNA sequence present on the chromosome of interest; and d) detecting the presence and relative order of the probes as an indication of the relative and absolute locations of the DNA sequences on the chromosome. In another embodiment, the invention features ordering at least two discrete DNA sequences on a fragment of DNA that has been extended, for example by physical means, chemical means or a combination of both. A preferred physical means for extending DNA is by gentle smearing.

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